

What is claimed is:

1. A unitary chamber for counting microscopic objects in liquid, comprising
a top part,
a base part,
5 a counting grid,
a connecting layer,
a sample introduction port,
and an air escape port,
wherein said connecting layer is between said top part and said base part,
10 and wherein said connecting layer is at a pre-determined thickness.
2. The unitary chamber as defined in claim 1, wherein said counting grid is an integral part of said top part.
3. The unitary chamber as defined in claim 2, wherein said counting grid is on the bottom side of the said top part.
- 15 4. The unitary chamber as defined in claim 1, wherein said counting grid is an integral part of said base part.
5. The unitary chamber as defined in claim 4, wherein said counting grid is on the top side of the said bottom part.
6. The unitary chamber as defined in claim 1, wherein said sample introduction
20 port and said air escape port are integral parts of said top part.
7. The unitary chamber as defined in claim 1, wherein said counting grid line width range from 0.1 micrometer to 1 mm.

8. The unitary chamber as defined in claim 1, wherein said counting grid line width range from 1 micrometer to 25 micrometer.

9. The unitary chamber as defined in claim 1, wherein said counting grid line thickness ranges from 0.1 micrometer to 50 micrometer.

5 10. The unitary chamber as defined in claim 1, wherein said counting grid is made by polymerizable solution.

11. The unitary chamber as defined in claim 1, wherein said counting grid is made by the radiation polymerizable solution.

12. The unitary chamber as defined in claim 1, wherein said counting grid is
10 made by the ultraviolet light polymerizable solution.

13. The unitary chamber as defined in claim 1, wherein said counting grid is made by polymerizable solution onto the bottom side of the top part.

14. The unitary chamber as defined in claim 1, wherein said counting grid is made by polymerizable solution onto the top side of the base part.

15 15. The unitary chamber as defined in claim 1, wherein said connecting layer is made with adhesives dispersed with gap defining particles.

16. The unitary chamber as defined in claim 1, wherein said connecting layer consists of only pressure sensitive adhesives.

17. The unitary chamber as defined in claim 1, wherein said connecting layer
20 consists of a plastic film, sandwiched by two layers of pressure sensitive adhesives.

18. A unitary device with plurality of unitary chambers as defined in claim 1.

19. A method of making a unitary chamber for counting microscopic objects in liquid, said chamber comprising

5 a top part,
a base part,
a counting grid,
a connecting layer,
a sample introduction port,
and an air escape port,

wherein said connecting layer is between said top part and said base part, and wherein
said connecting layer is at a pre-determined thickness.

20. A method of counting microscopic objects in liquid with a unitary
10 chamber, said chamber comprising
a top part,
a base part,
a counting grid,
a connecting layer,
15 a sample introduction port,
and an air escape port,

wherein said connecting layer is between said top part and said base part, and wherein
said connecting layer is at a pre-determined thickness.

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